



Fig. 1a

Fig. 1b

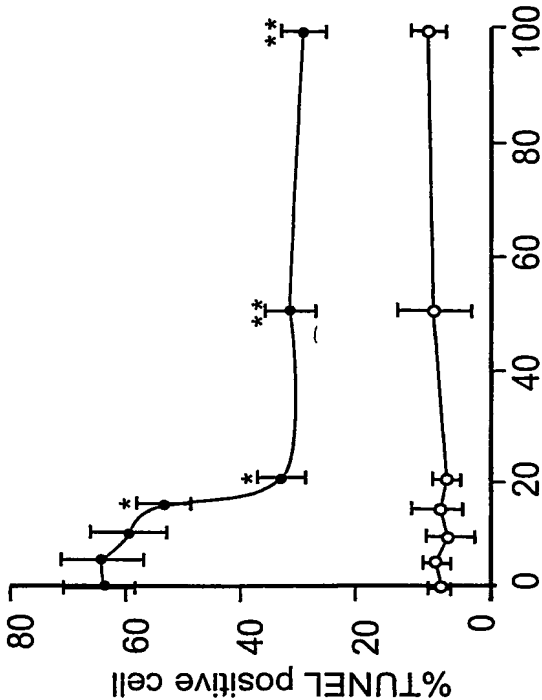


Fig. 1d

2/14

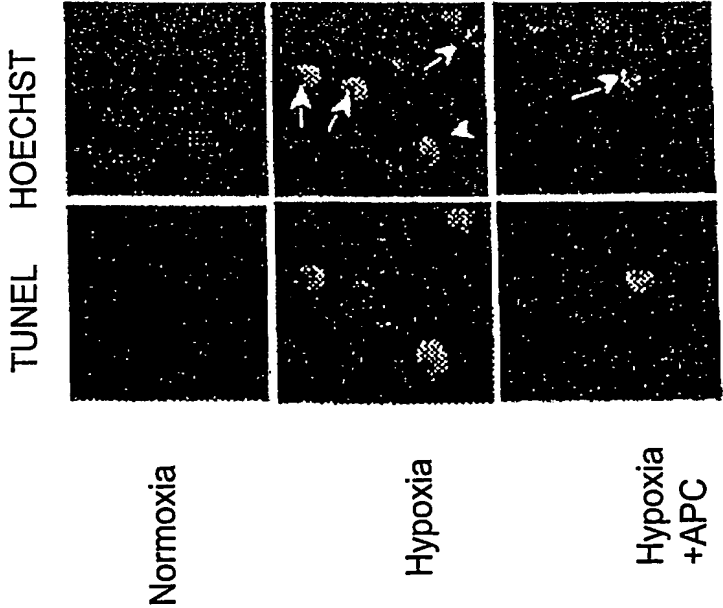
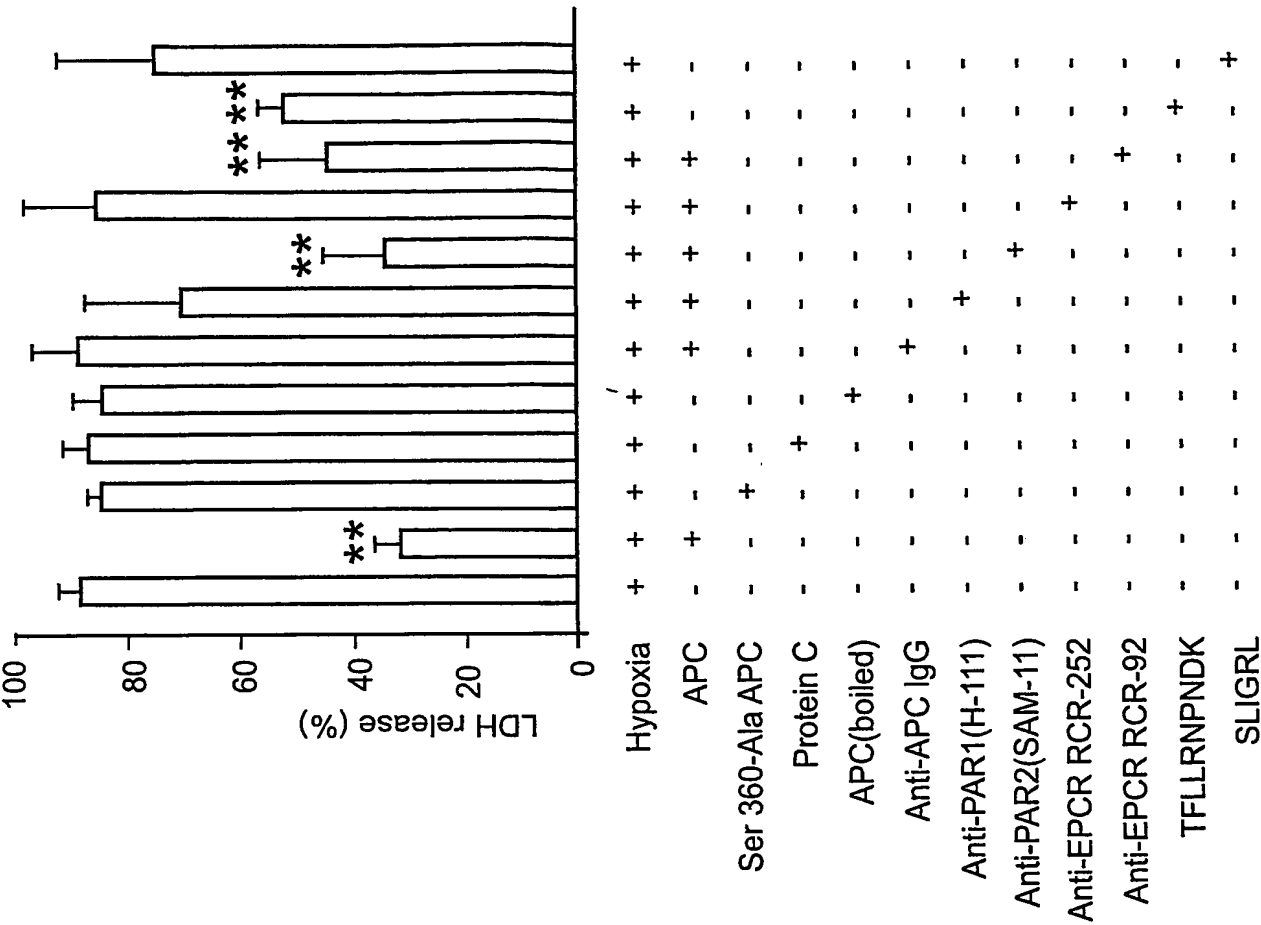


Fig. 1c

Fig. 1e

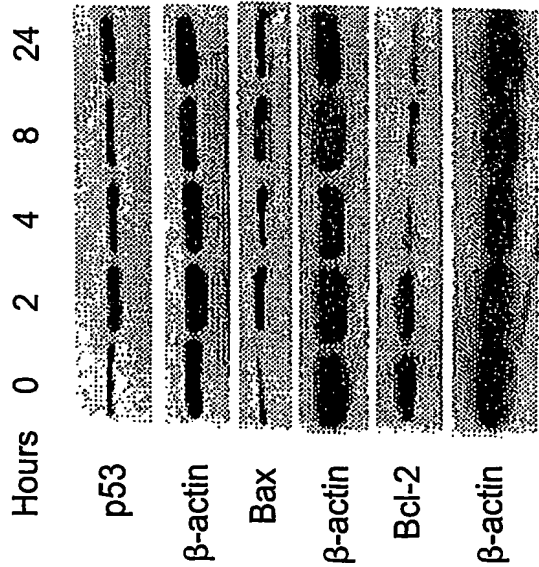


Fig. 2a

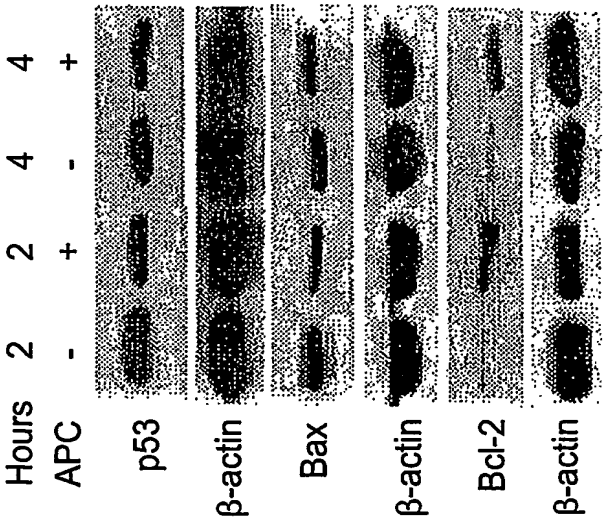
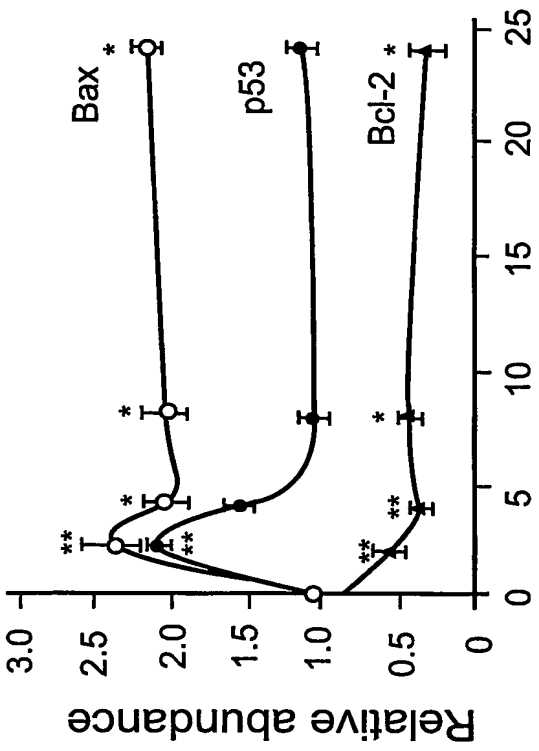


Fig. 2c



3/14

Fig. 2b

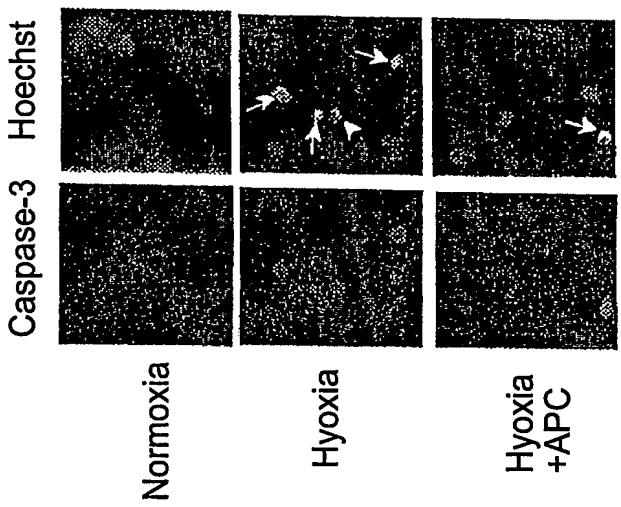


Fig. 2e

4/14

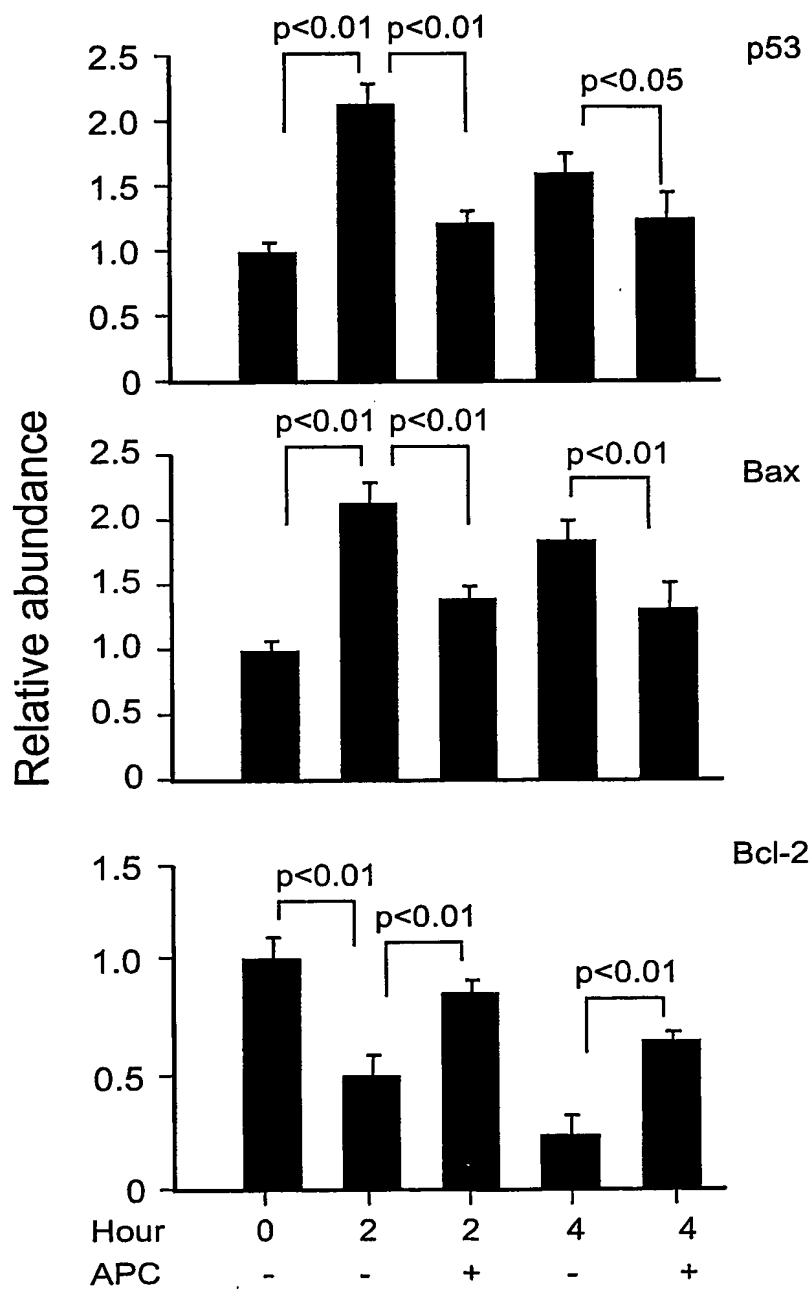


Fig. 2d

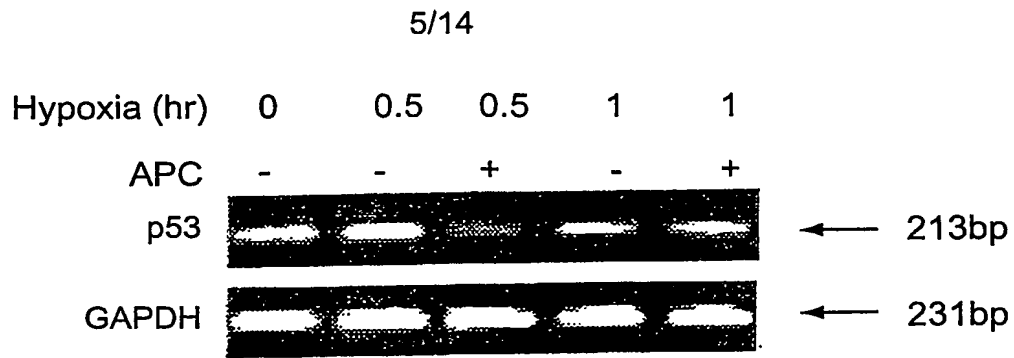


Fig. 3a

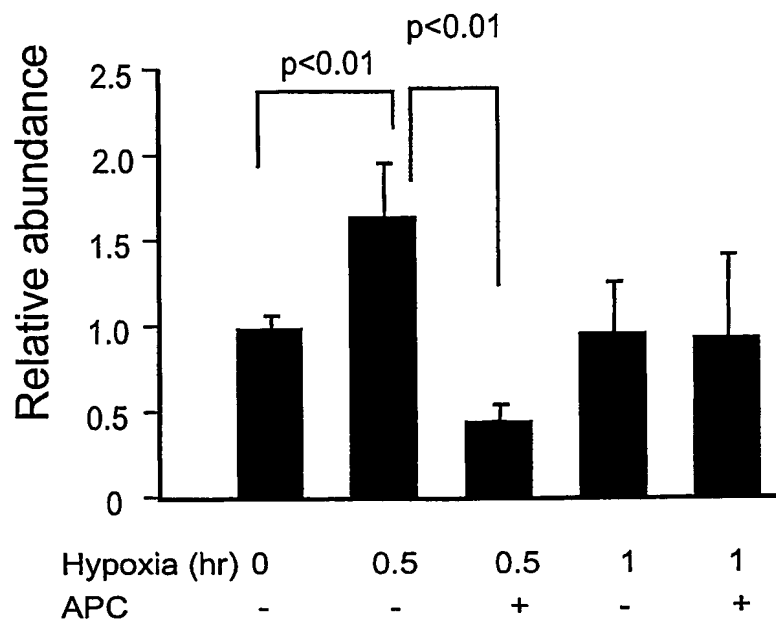


Fig. 3b

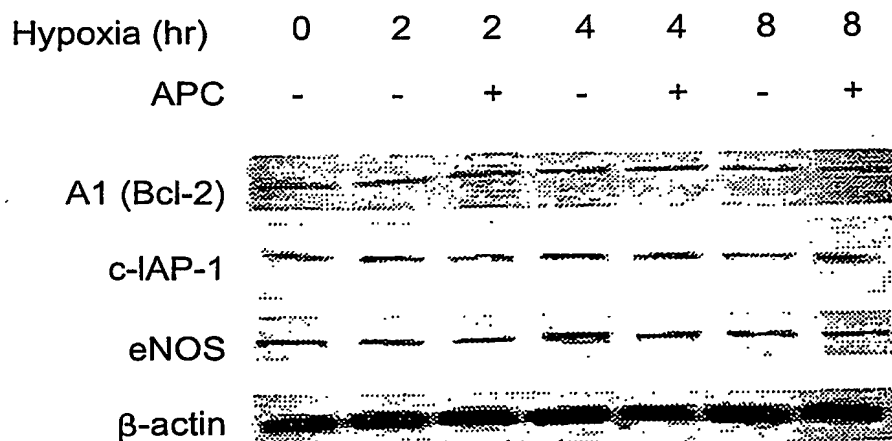
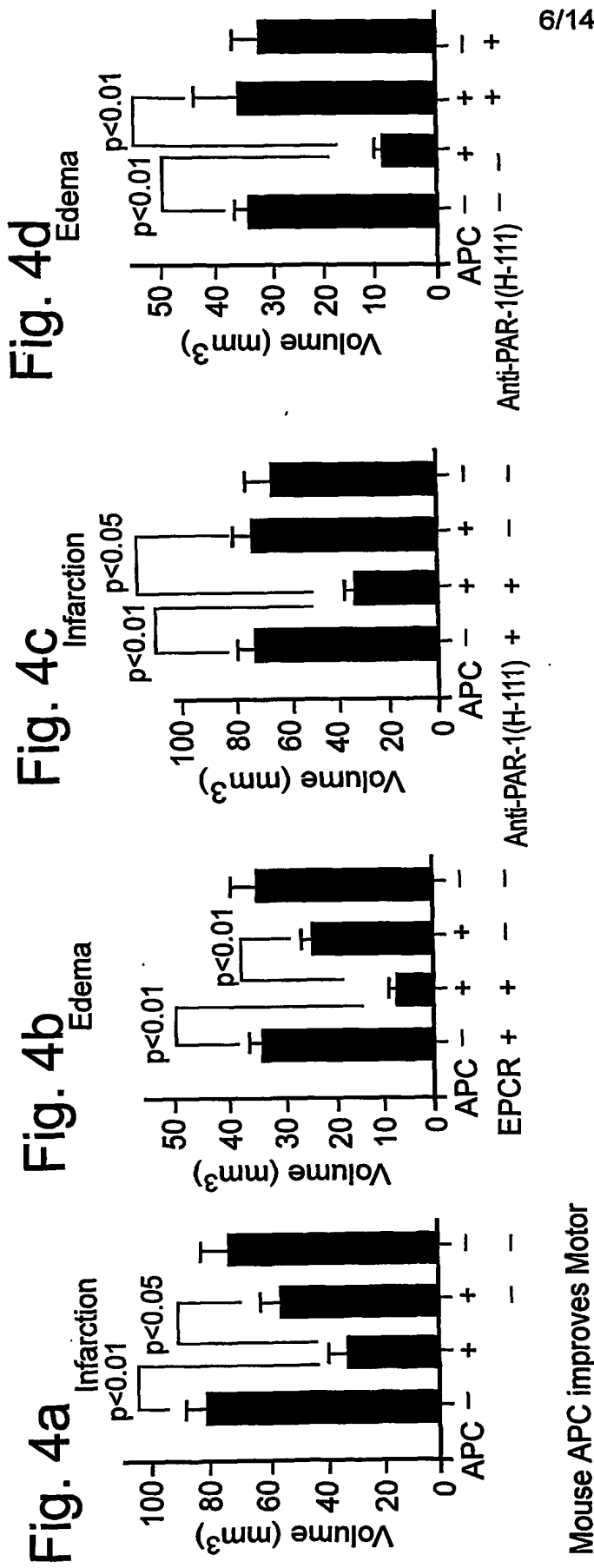
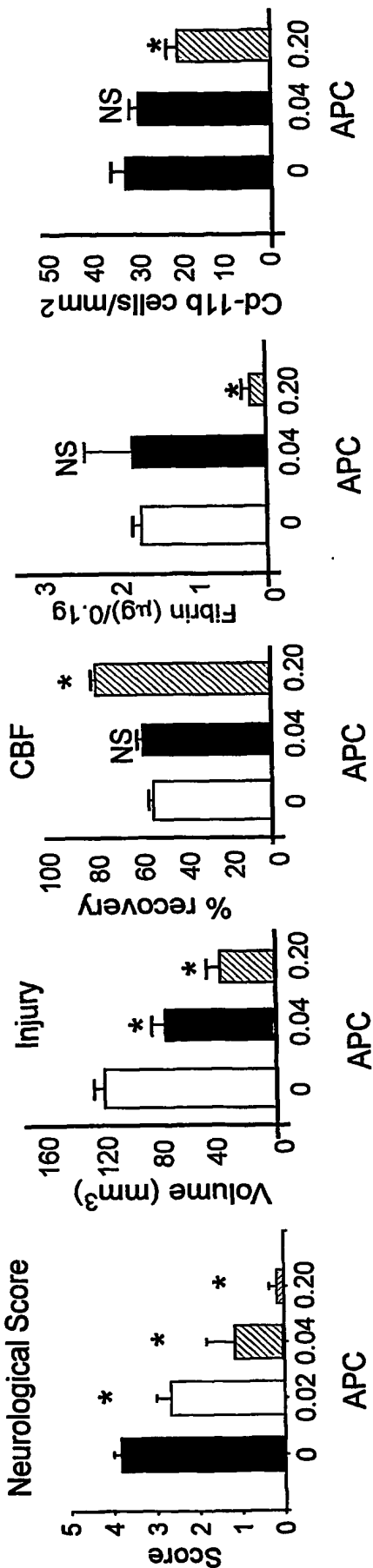


Fig. 3c



Mouse APC improves Motor Neurological Score



**Fig. 4e**

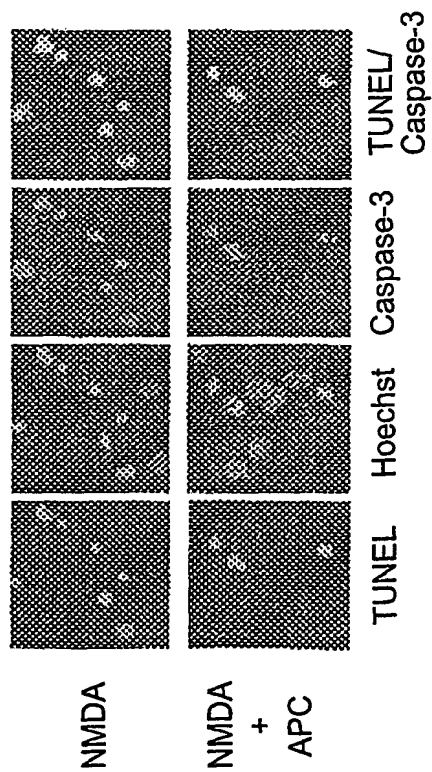
**Fig. 4f**

**Fig. 4g**

**Fig. 4h**

**Fig. 4i**

**Fig. 5a**



**Fig. 5b**

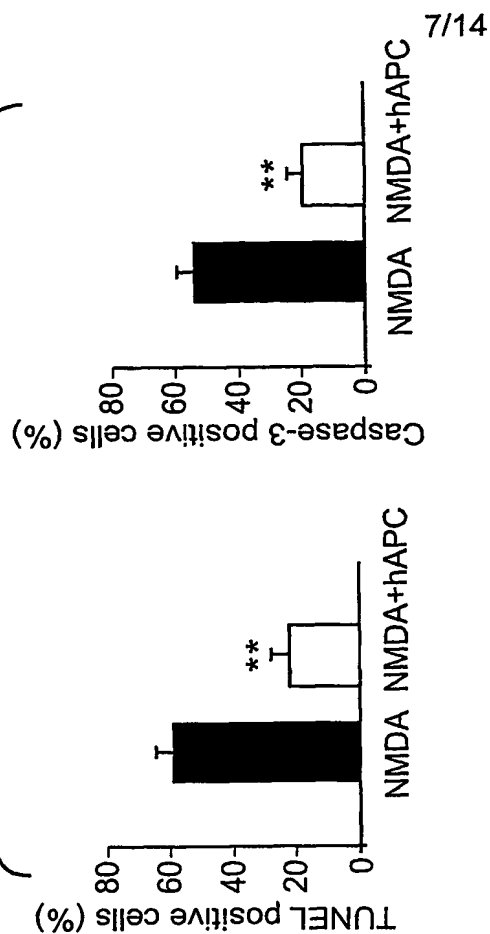
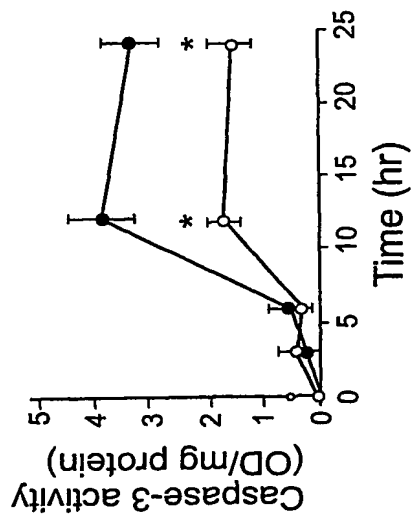


Figure 5c is a line graph showing Caspase-3 activity (OD/mg protein) over Time (hr) for two conditions: Control (filled circles) and 100  $\mu$ M TBS (open circles). The Control group shows a significant increase in activity starting at 5 hours, reaching approximately 4.0 OD/mg protein by 10 hours. The 100  $\mu$ M TBS group shows a much lower activity, remaining near 0.2 OD/mg protein throughout the 20-hour period. An asterisk (\*) indicates a significant difference between the groups at 10 hours.

Time (hr)	Control (OD/mg protein)	100 $\mu$ M TBS (OD/mg protein)
0	0.0	0.0
2	0.2	0.2
4	0.5	0.2
6	0.8	0.2
8	1.0	0.2
10	4.0	0.2
12	4.0	0.2
14	4.0	0.2
16	4.0	0.2
18	4.0	0.2
20	4.0	0.2



**Fig. 5d**

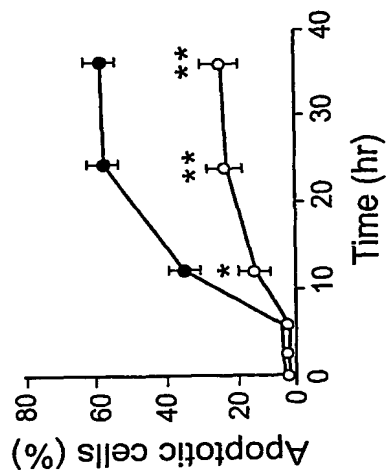


Fig. 5e

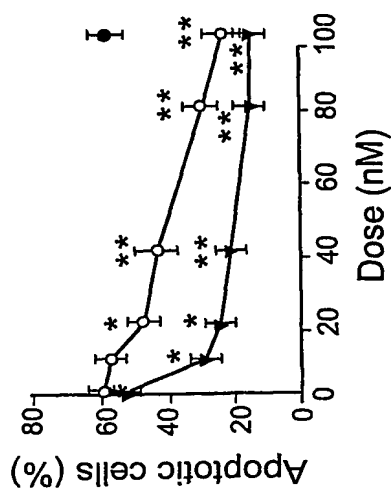


Fig. 6a

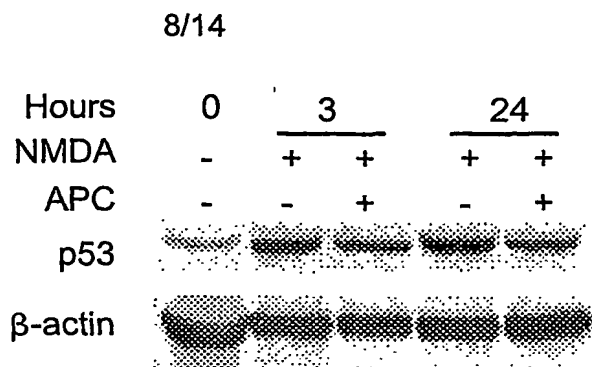


Fig. 6b

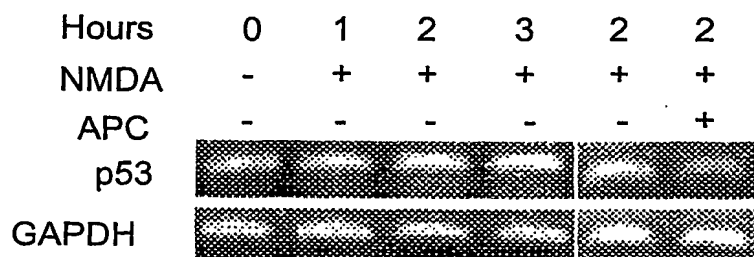


Fig. 6c

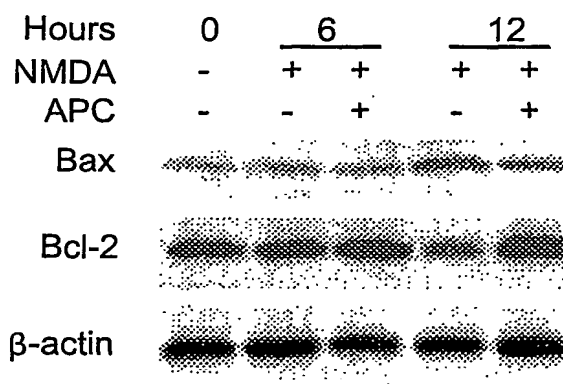


Fig. 6e

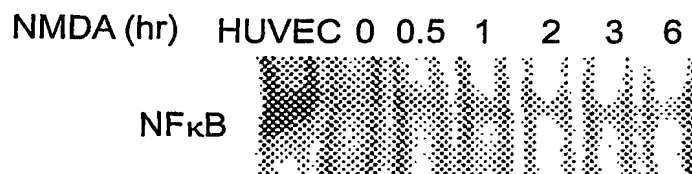
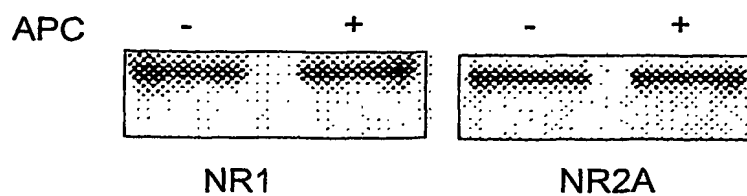


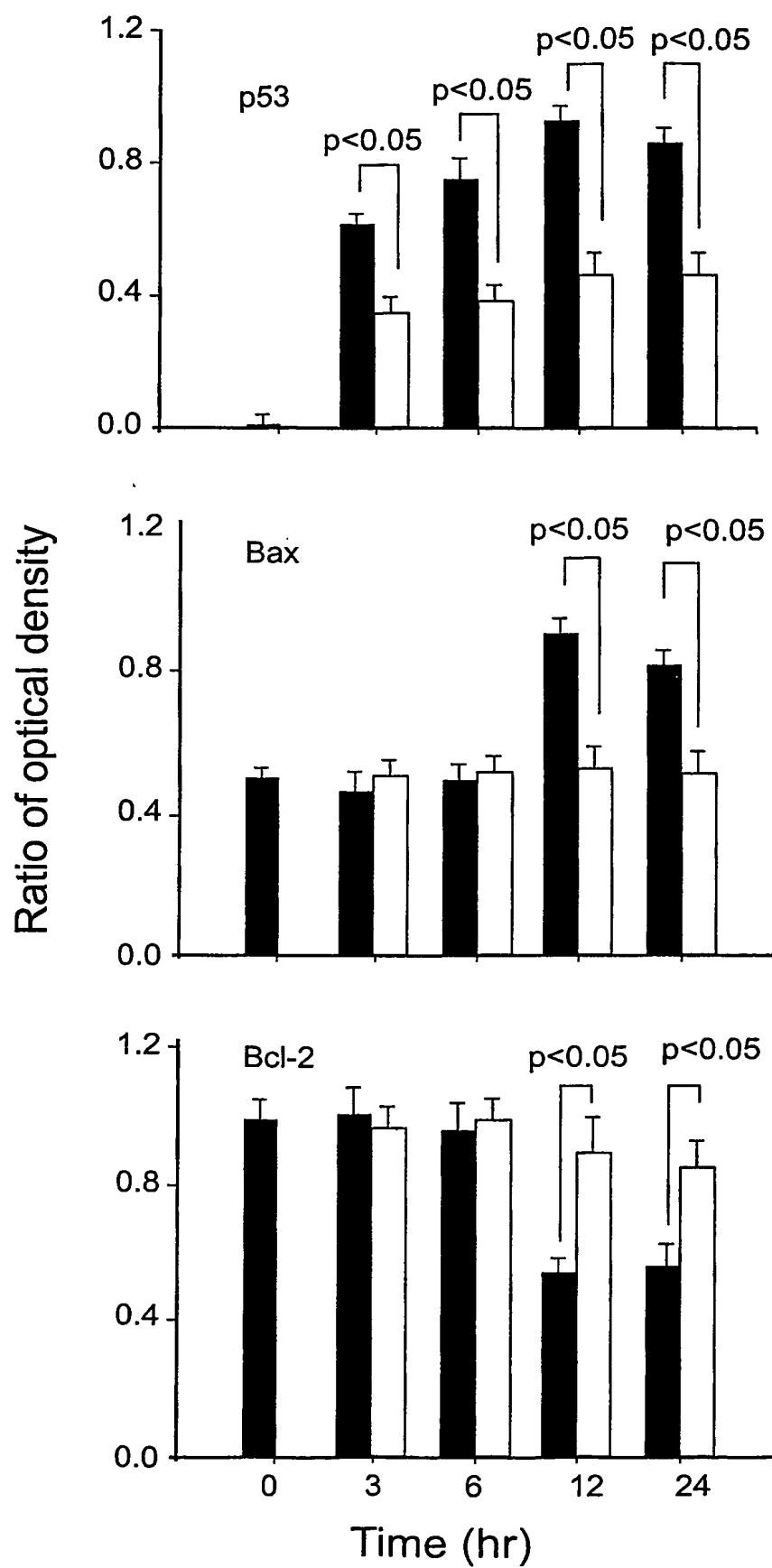
Fig. 6f





9/14

Fig. 6d



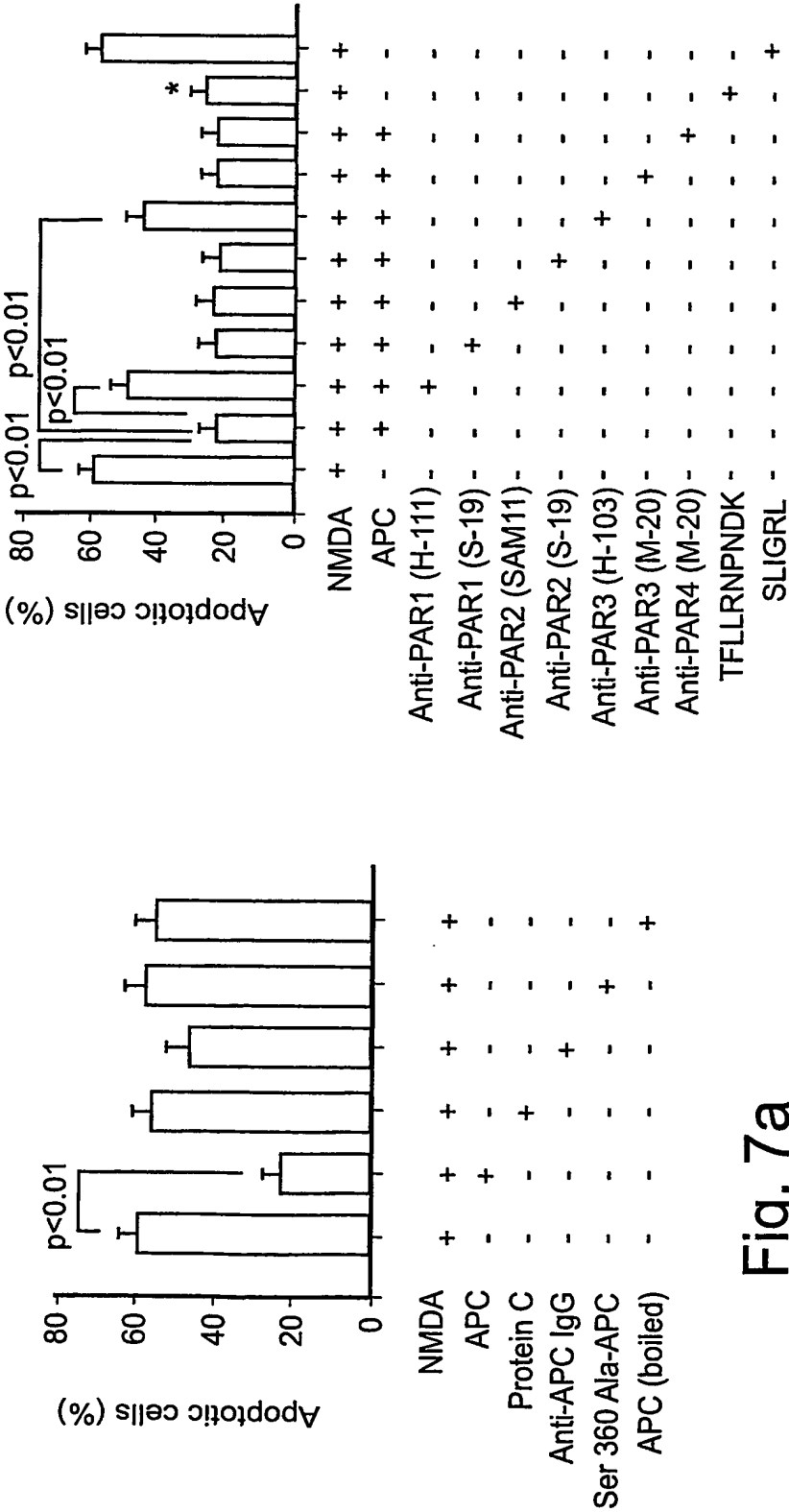


Fig. 7b

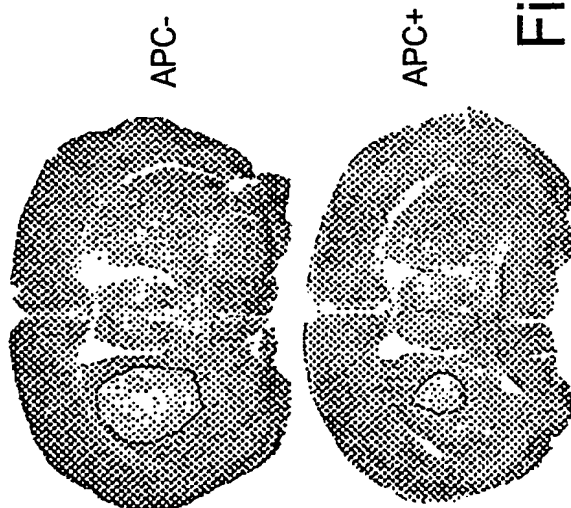


Fig. 7c

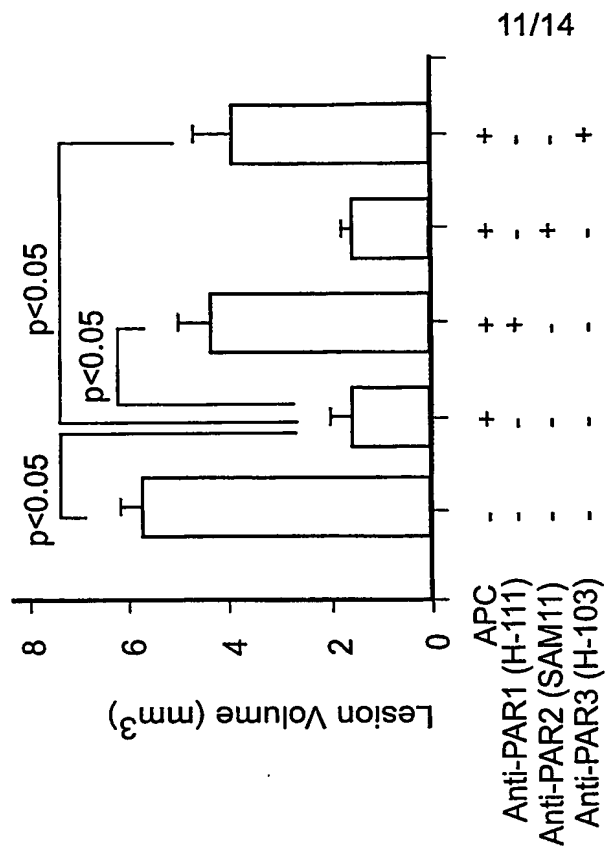


Fig. 7e

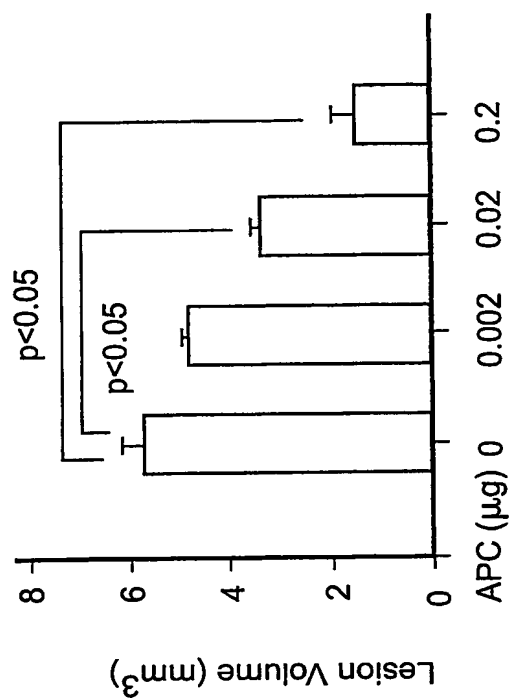


Fig. 7d

Surface loops affect APC anticoagulant activity

Loop	APC mutant	anticoagulant activity
37	KKK191/193AAA	<10%
60	KK217/218AA	140%
60	R222A (amidolytic activity)	~ 20 %
Calcium	RR229/230AA	~ 5 %
Autolysis	RR306/312AA	17%
Autolysis	RKRR306/314AAAA	<2%

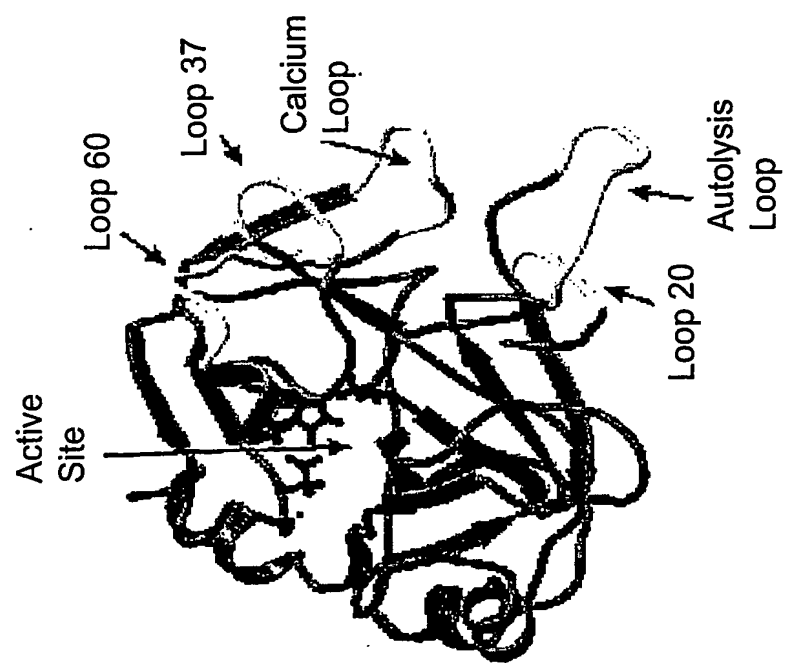


Fig. 8

13/14

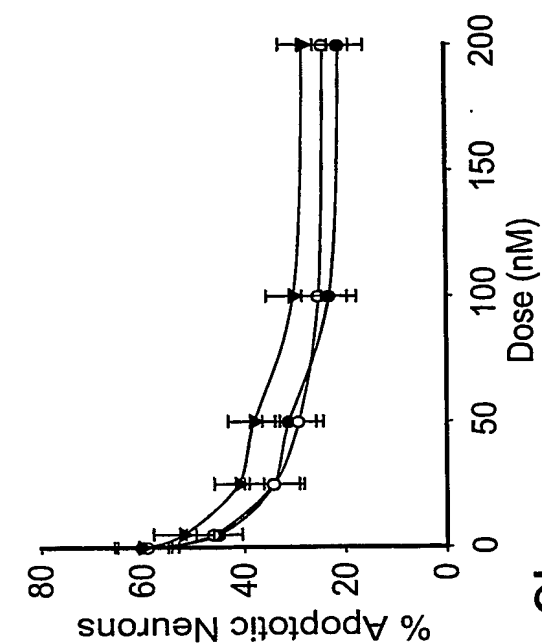


Fig. 9b

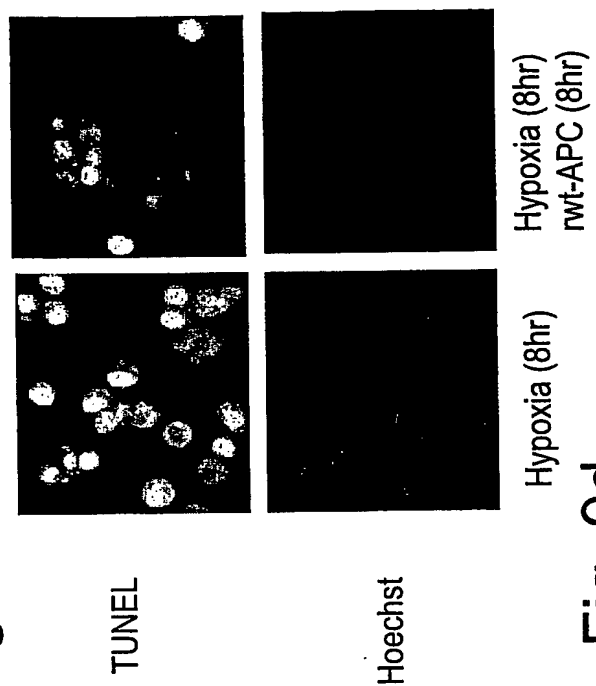


Fig. 9d

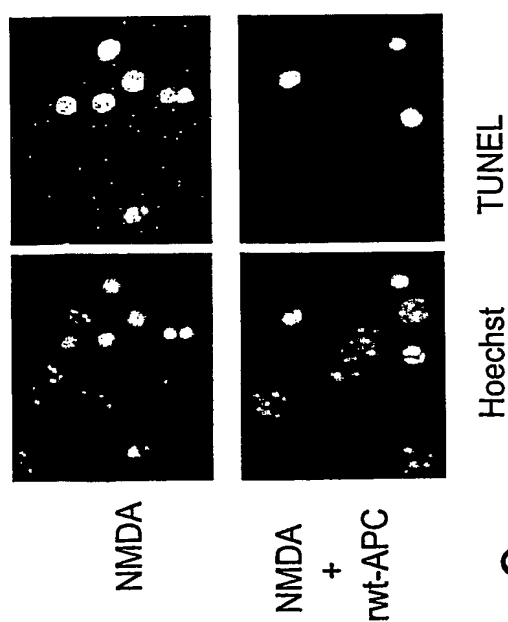


Fig. 9a

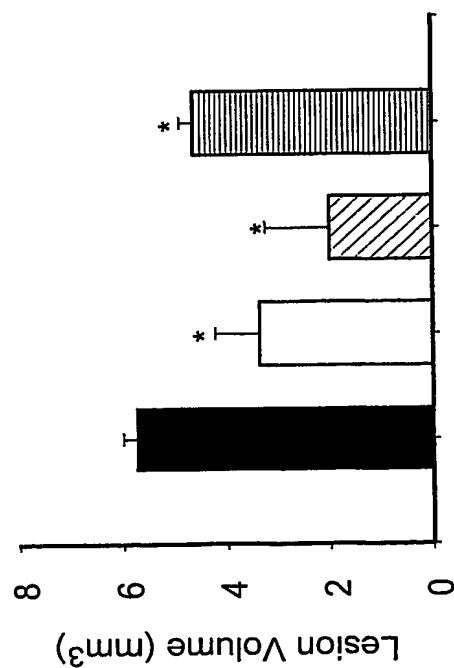


Fig. 9c

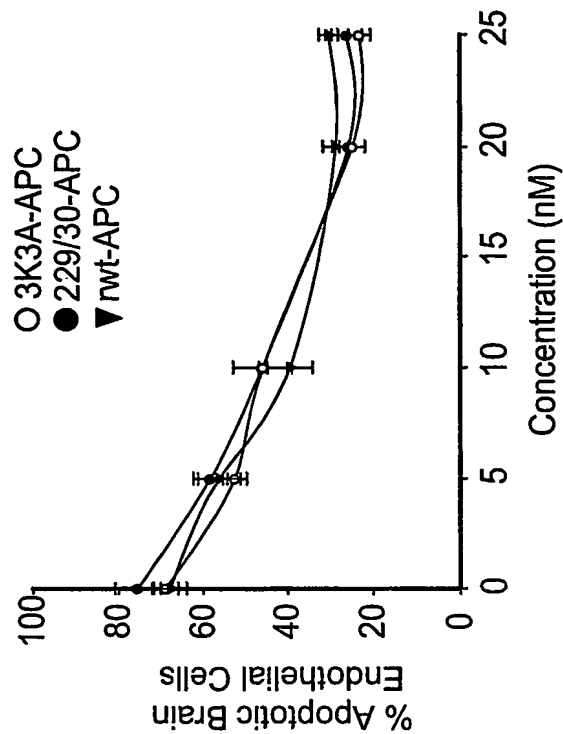


Fig. 9f

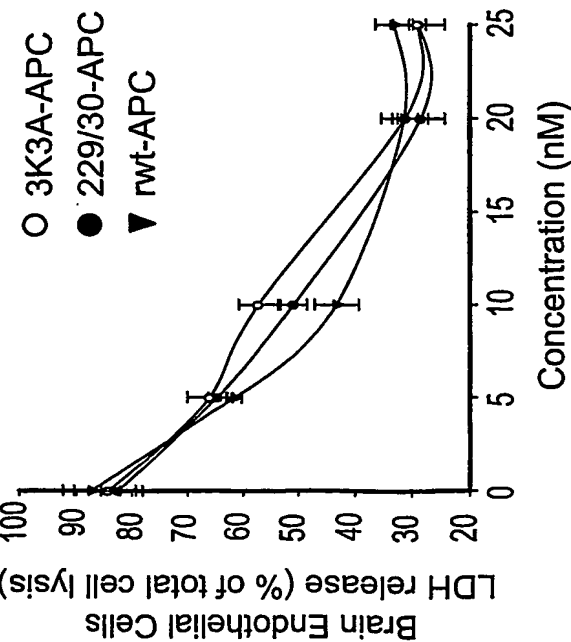


Fig. 9e